Ophthalmic and Physiological Optics

The Journal of the British College of Optometrists

INDEX TO VOLUME 10

SUBJECT INDEX

abstracts
  Frontiers of Vision, 103
  Human Factors in Vision, AVA, 311
  Society of Experimental Optometry, 97, 409
accommodation (dynamic)
  occulomotor system, pupil responses, 175
  optometer, eye movements, 291
accommodation (proximal)
  vergence (tonic), accommodation (tonic), 252
accommodation (steady-state)
  visual performance, contrast threshold, 168
accommodation (tonic)
  accommodation (proximal), vergence (tonic), 252
  vergence (tonic), psychophysics, 243
age
  electrophysiology, ocular pathology, 49
  review, age-related maculopathy, 149
age-related maculopathy
  age, review, 149
amblyopia
  book review, strabismus, 317
anthrax
  case report, ocular pathology, 300
aphakia
  ocular aberrations, intra-ocular lenses, 54
Applied Vision Association
  historical note, 308
astigmatism
  prismatic power, optical matrices, 203
  refractive error, ocular biometry, 46
binocular vision
  book review, eye movements, 416
  chromostereopsis, visual optics, 271
  contrast sensitivity, glare, 37
  contrast sensitivity, defocus, 33
  electrophysiology, visual acuity, 257
  oculomotor system, prism adaptation, 25
  prism adaptation, heterophoria, 29, 81
book review
  contact lenses, prosthetics, 318
  eye movements, binocular vision, genetics, 416
  glaucoma, 318
  glaucoma, ocular pathology, 318
  ophthalmology, ocular pathology, 416
  radiation hazard, ocular pathology, 119
  retina, ocular pathology, 319
  retinal detachment, ocular pathology, 317
  strabismus, amblyopia, 317
  visual neurophysiology, visual perception, 119
  visual optics, ophthalmology, 119
British optometric research
  survey, postgraduate theses 87–90, 418
case report
  anthrax, ocular pathology, 300
  children's vision, visual conversion reaction, 391
  intracranial meningioma, clinical diagnosis, 205
cataract
  contrast sensitivity, light scatter, 394
children's vision
  case report, visual conversion reaction, 391
  stereopis, clinical tests, 3
  visual acuity, stereopis, 133
chromatic aberration
  visual optics, optical power, 405
chromostereopsis
  binocular vision, visual optics, 271
ciliary muscle
  ocular anatomy, parasympathetic system, 239
clinical diagnosis
  case report, intracranial meningioma, 205
  colour vision, clinical tests, 40
clinical survey
  myopia, ocular biometry, 234
clinical tests
  children's vision, stereopsis, 3
  colour vision, clinical diagnosis, 40
  colour vision, tritanopia, 195
  visual acuity, Ives test object, 90
  visual acuity, Pelli–Robson chart, 21
closed-circuit television
  visual performance, low vision, 225
colour vision
  clinical tests, clinical diagnosis, 40
  tritanopia, clinical tests, 195
computer analysis
  eye movements, scanning laser ophthalmoscopy, 286
  optical power, 280
computer control
  ocular motility, instrumentation, 137
  optical power (variable), instrumentation, 85
contact lenses
  book review, prosthetics, 318
contact lenses
  meibomian gland, thin layer chromatography, 144
  tear film, cornea, 343
contrast sensitivity
  cataract, light scatter, 394
  defocus, binocular vision, 33
  glare, binocular vision, 37
  visual acuity, Pelli–Robson Chart, 323
contrast threshold
  accommodation (steady-state), visual performance, 168
cornea
  contact lenses, tear film, 343
  keratoconus, joint hypermobility, 360
  ocular biometry, instrumentation, 385
defocus
  contrast sensitivity, binocular vision, 33
diabetic retinopathy
  video review, low-vision, 117
driver vision
  visual performance, visual fields, 327

© 1990 Butterworth-Heinemann for British College of Optometrists
0275–5408/90/040421–04

dyslexia
  review, visual performance, 123
Edridge-Green Lecture
  review, light sensitivity, 351
electrophysiology
  age, ocular pathology, 49
  binocular vision, visual acuity, 257
  eye movements, saccades, 182
eye movements
  book review, binocular vision, 415
  computer analysis, scanning laser ophthalmoscopy, 286
  electrophysiology, saccades, 182
  Helmholtz, Listing's Law, 373
  historical note, saccades, 307
  oculomotor system, scanning laser ophthalmoscopy, 67
  optometer, accommodation (dynamic), 291
fixation disparity
  matters arising, 211
genetics
  book review, 415
geometrical optics
  ray-tracing, instrumentation, 389
glare
  contrast sensitivity, binocular vision, 37
glaucoma
  book review, 318
  book review, ocular pathology, 318
Helmholtz
  eye movements, Listing's Law, 373
heterophoria
  prism adaptation, binocular vision, 29, 81
historical note
  Applied Vision Association, 308
  eye movements, saccades, 307
Imbert
  prismatic power, Prentice's rule, 397
instrumentation
  matters arising, 305
  ocular biometry, cornea, 385
  ocular motility, computer control, 137
  ophthalmic lenses, optical power (variable), 262
  optical power (variable), computer control, 85
  optical power, ophthalmic lenses, 95
  ray-tracing, geometrical optics, 389
intracranial meningioma
  case report, clinical diagnosis, 205
intra-ocular lenses
  ocular aberrations, aphakia, 54
Ives test object
  visual acuity, clinical tests, 90
joint hypermobility
  keratoconus, cornea, 360
keratoconus
  joint hypermobility, cornea, 360
light scatter
  cataract, contrast sensitivity, 394
light sensitivity
  review, Edridge-Green Lecture, 351
Listing's Law
  Helmholtz, eye movements, 373
low vision
  visual performance, closed-circuit television, 225
  visual performance, tinted lenses, 219
low-vision
  optical aids, ocular pathology, 8
  video review, diabetic retinopathy, 117
matters arising
  fixation disparity, 211
  instrumentation, 305
  optical power, 303, 400
  optical power (cornea), 93
meibomian gland
  contact lenses, thin layer chromotography, 144
myopia
  ocular biometry, clinical survey, 234
  ophthalmic lenses, optical power, 159
  translation, reading vision, 381
ocular aberrations
  aphakia, intra-ocular lenses, 54
ocular anatomy
  ciliary muscle, parasympathetic system, 239
ocular biometry
  cornea, instrumentation, 385
  myopia, clinical survey, 234
  refractive error, astigmatism, 46
ocular hazards
  review, ozone layer, 333
ocular motility
  computer control, instrumentation, 137
ocular pathology
  age, electrophysiology, 49
  book review, glaucoma, 318
  book review, ophthalmology, 415
  book review, radiation hazard, 119
  book review, retina, 319
  book review, retinal detachment, 317
  case report, anthrax, 300
  low-vision, optical aids, 8
oculomotor system
  accommodation (dynamic), pupil responses, 175
  eye movements, scanning laser ophthalmoscopy, 67
  prism adaptation, binocular vision, 25
ophthalmic lenses
  myopia, optical power, 159
  optical power (variable), instrumentation, 262
  optical power, instrumentation, 95
ophthalmology
  book review, ocular pathology, 140
  book review, visual optics, 119
optical aids
  low-vision, ocular pathology, 8
optical dispensing
  presbyopia, optical power (variable), 16
optical matrices
  prismatic power, astigmatism, 203
  statistics, optical power, 72, 200, 363
optical power
  computer analysis, 280
  matters arising, 303, 399
  myopia, ophthalmic lenses, 159
  ophthalmic lenses, instrumentation, 95
  statistics, optical matrices, 72, 200, 363
  visual optics, chromatic aberration, 407
optical power (cornea)
  matters arising, 93
optical power (variable)
  computer control, instrumentation, 85
  ophthalmic lenses, instrumentation, 262
  optical dispensing, presbyopia, 16
  review, presbyopia, 186
optometer
  accommodation (dynamic), eye movements, 291
ozone layer
  review, ocular hazards, 333
parasympathetic system
  ocular anatomy, ciliary muscle, 239
Pelli–Robson Chart
  visual acuity, clinical tests, 21
  visual acuity, contrast sensitivity, 323
Prentice's rule
  prismatic power, Imbert, 397
postgraduate theses 87–90
  survey, British optometric research, 418
presbyopia
  optical dispensing, optical power (variable), 16
  review, optical power (variable), 186
prism adaptation
  binocular vision, heterophoria, 81
  heterophoria, binocular vision, 29
  oculomotor system, binocular vision, 25
prismatic power
  Imbert, Prentice's rule, 397
  optical matrices, astigmatism, 203
prosthetics
  book review, contact lenses, 318
psychophysics
  vergence (tonic), accommodation (tonic), 243
pupil responses
  accommodation (dynamic), oculomotor system, 175
radiation hazard
  book review, ocular pathology, 119
ray-tracing
  instrumentation, geometrical optics, 389
reading vision
  translation, myopia, 381
refractive error
  ocular biometry, astigmatism, 46
retina
  book review, ocular pathology, 319
retinal detachment
  book review, ocular pathology, 317
review
  Edridge-Green Lecture, light sensitivity, 351
  age, age-related maculopathy, 149
  dyslexia, visual performance, 123
  ocular hazards, ozone layer, 333
  optical power (variable), presbyopia, 186
saccades
  eye movements, electrophysiology, 182
  historical note, eye movements, 307
scanning laser ophthalmoscopy
  computer analysis, eye movements, 286
  eye movements, oculomotor system, 67
statistics
  optical power, optical matrices, 72, 200, 363
stereopis
  children's vision, clinical tests, 3
  children's vision, visual acuity, 133
strabismus
  book review, amblyopia, 317
tear film
  contact lenses, cornea, 343
thin layer chromotography
  meibomian gland, contact lenses, 144
tinted lenses
  visual performance, low vision, 219
tritanopia
  colour vision, clinical tests, 195
vergence (tonic)
  accommodation (proximal), accommodation (tonic), 252
  psychophysics, accommodation (tonic), 243
video review
  diabetic retinopathy, low-vision, 117
visual acuity
  binocular vision, electrophysiology, 257
  children's vision, stereopis, 133
  clinical tests, Ives test object, 90
  Pelli–Robson Chart, contrast sensitivity,
  Pelli–Robson chart, clinical tests, 21
visual conversion reaction
  case report, children's vision, 391
visual fields
  driver vision, visual performance, 327
visual neurophysiology
  book review, visual perception, 119
visual optics
  book review, ophthalmology, 119
  chromatic aberration, optical power, 405
  chromostereopsis, binocular vision, 271
visual perception
  book review, visual neurophysiology, 119
visual performance
  accommodation (steady-state), contrast threshold, 168
  driver vision, visual fields, 327
  dyslexia, review, 123
  low vision, closed-circuit television, 225
  low vision, tinted lenses, 219

AUTHOR INDEX

Adams, A J see **Dain, S J**, 40
Azimi, A see **Ciuffreda, K J**, 168
Barnard, N A S,
Anthrax of the eyelid, 300
Barnard, N A S, Birch, J and **Wildey, H,**
Concurrent visual conversion reaction and simulated colour vision defects in a 12-year-old child, 391
Barnes, D A see **Dunne, M C M**, 46
Barnes, D A see **Royston, J M**, 385
Bassil, N see **Javal, E**, 381
Bennett, A G,
Analysis of three meridional keratometric measurements of the anterior cornea (Matters Arising), 93
Bennett, A G,
Prismatic effects of spherical and astigmatic lenses: Imbert's pioneer analysis of 1886 (Research Note), 399
Bennett, A G,
The sine-squared expression and torsional prismatic effects in astigmatic lenses (Matters Arising), 399
Birch, J see **Barnard, N A S**, 391
Bonette, L see **Elliott, D B**, 323
Boylan, C see **Doig, H R**, 182
Broadbent, H and **Westall, C,**
An evaluation of techniques for measuring stereopsis in infants and young children, 3
Bryson, H see **Leat, S J**, 219
Burek, H,
Toroidal surface assessment by curvature measurements in three fixed meridians (Letter to the Editor), 95
Burek, H,
Tri-meridional analysis using arbitrary meridians, 280
Burek, H,
Assessment of surface power and curvature by measurements along meridians at 60, 120 and 180 degrees (Author's Reply), 304
Campbell, M C W see **Simonet, P**, 271
Candy, R see **Shute, R**, 133
Charman, W N,
Ocular hazards arising from depletion of the natural atmospheric ozone layer: a review, 333
Ciuffreda, K J,
Etymology of the word 'saccade' (Historical Note), 307
Ciuffreda, K J see **Rosenfield, M**, 252
Ciuffreda, K J see **Rosenfield, M**, 403
Ciuffreda, K J see **Javal, E**, 381
Ciuffreda, K J, Rosenfield, M, Rosen, J, Azimi, A and **Ong, E,**
Accommodative responses to naturalistic stimuli, 168
Clement, R A,
An extension of Helmholtz's explanation of Listing's Law, 373
Committee of Management of the AVA,
The Applied Vision Association: its foundation and early history (Historical Note), 308
Conkey, A see **Elliott, D B**, 21
Dain, S J and **Adams, A J,**
Comparison of the standard and Adams desaturated D-15 tests with congenital colour vision deficiencies, 40
Desai, N see **Thomson, W D**, 137
Doig, H R, Nesfield, C J and **Boylan, C,**
Presaccadic spike potential with vertical saccades, 182
Douthwaite, W A see **Heravian, S J**, 257
Dowley, D,
Heterophoria and monocular occlusion, 29
Drasdo, N,
Eye, Brain and Vision: David H Hubel (Book Review), 119
Drasdo, N see **Evans, B J W**, 123
Drasdo, N see **Hull, B M**, 49
Drasdo, N see **Lowe, J B**, 225
Dunne, M C M and **Barnes, D A,**
Modelling oblique astigmatism in eyes with known peripheral refraction and optical dimensions, 46
Dunne, M C M see **Royston, J M**, 385
Eckmiller, R see **Ott, D**, 286
Elliott, D B, Sanderson, K and **Conkey, A,**
The reliability of the Pelli–Robson contrast sensitivity chart, 21
Elliott, D B, Whitaker, D and **Bonette, L,**
Differences in the legibility of letters at contrast threshold using the Pelli–Robson chart, 323
Evans, B J W and **Drasdo, N,**
Review of ophthalmic factors in dyslexia, 123
Feghali, J G,
Glaucoma. A Colour Manual of Diagnosis and Treatment: Jack J Kanski and James A McAllister (Book Review), 318
Fielder, A R see **Shaw, D E**, 90
Flanagan, J G and **Kothe, A C,**
Intracranial meningioma: an exercise in differential diagnosis, 205
Fowler, C W and **Pateras, E S,**
Liquid crystal lens review, 186
Fowler, C W and **Pateras, E S,**
A gradient-index ophthalmic lens based on Wood's convex pseudo-lens, 262
Fowler, C W and **Sullivan, C M,**
Automatic measurement of varifocal spectacle lenses, 85
Fowler, C W see **Sullivan, C M**, 16
Fujieda, M see **Okuyama, F**, 291
Garner, L F, Meng, C K, Grosvenor, T P and **Mohidin, N,**
Ocular dimensions and refractive power in Malay and Melanesian children, 234
Gilchrist, J see **Pardhan, S**, 33
Gilchrist, J see **Pardhan, S**, 37
Grosvenor, T P see **Garner, L F**, 234
Guillon, J-P, Guillon, M and **Malgouyres, S,**
Corneal desiccation staining with hydrogel lenses tear film and contact lens factors, 343
Guillon, M see **Guillon, J-P**, 343
Harris, W F,
Direct, vec and other squares, and sample variance–covariance of dioptric power, 72
Harris, W F,
Comparison of dioptric power, 200
Harris, W F,
Torsional analogue of Prentice's equation and torsional prismatic effect in astigmatic lenses, 203
Harris, W F,
Assessment of surface power and curvature by measurements along meridians at 60, 120 and 180 degrees (Matters Arising), 303
Harris, W F,
Statistical inference on mean dioptric power: hypothesis testing and confidence regions, 363
Harris, W F,
The sine-squared expression and torsional prismatic effect in astigmatic lenses (Author's reply), 402
Heaven, C,
Retinal Detachment: Diagnosis and Management: W E Benson (Book Review), 317
Heaven, C,
Clinical Atlas of Peripheral Retinal Disorders: Keith M Zinn (Book Review), 319
Hemenger, R P,
Light scatter in cataractous lenses, 394
Heravian, S J, Jenkins, T C A and **Douthwaite, W A,**
Binocular summation in visually evoked responses and visual acuity, 257
Heron, G,
Atlas of Ocular Motility: L B Nelson and R A Catalano (Ed) (Book Review), 416
Hesler, J, Pickwell, D and **Gilchrist, J,**
Authors' reply (Matters Arising), 214
Hess, R F,
The Edridge-Green Lecture: Vision at low light levels: role of spatial, temporal and contrast filters, 351
Hirji, N K,
A Colour Atlas of Contact Lenses and Prosthetics: Montague Ruben (Book Review), 318
Ho, A,
Geometrical ray-tracing: a 'ray free' method, 389
Holthoff, K see **Ott, D**, 286
Hull, B M and **Drasdo, N,**
The influence of age on the pattern-reversal electroretinogram, 49
Hung, G K,
Fixation disparity under open- and closed-loop accommodation (Matters Arising), 211
Jaschinski-Kruza, W,
Effects of stimulus distance on measurements of dark convergence, 243
Javel, E, translated by **Ciuffreda, K J** and **Bassil, N,**
Essay on the physiology of reading, 381
Jay, M,
Genetic Risks. A Reference for Eye Care Practitioners: William M Lyle (Book Review), 415
Jenkins, T C A see **Heravian, S J**, 257
Jones, R see **Stephens, G L**, 25
Koczorowski, P,
Axial chromatic aberration: linear or power function of wavenumber? (Letter to the Editor), 405
Kothe, A C see **Flanagan, J G**, 205
Lades, M see **Ott, D**, 67
Lades, M see **Ott, D**, 286
Larke, J R see **Ong, B L**, 144
Laws, D,
Aids to Ophthalmology: P T Khaw, D S Hughes, S J Keightley, R F Walters and A R Elkington (Eds) (Book Review), 415
Leat, S J, North, R V and **Bryson, H,**
Do long wavelength pass filters improve low vision performance?, 219
Leat, S J and **Rumney, N J,**
The experience of a university-based low vision clinic, 8
Long, G M see **Tuck, J P**, 195
Lovie-Kitchin, J E see **Swann, P G**, 149
Lowe, J B and **Drasdo, N,**
Efficiency in reading with closed-circuit television for low vision, 225
Lu, C and **Smith, G,**
The aspherizing of intra-ocular lenses, 54
Malgouyres, S see **Guillon, J-P**, 343
Meng, C K see **Garner, L F**, 234
Mohidin, N see **Garner, L F**, 234
Morris, M T see **Woodward, E G**, 360
Moseley, M J see **Shaw, D E**, 90
Myers, G A and **Stark, L,**

Topology of the near response triad, 175
Nesfield, C J see **Doig, H R**, 182
North, R V, Sethi, B and **Owen, K,**
Prism adaptation and viewing distance, 81
North, R V, see **Leat, S J**, 219
Obstfeld, H and **Scott, A,**
Semi-automatic focimetry
(Matters Arising), 305
Okuyama, F, Tokoro, T and **Fujieda, M,**
Eye-tracking infra-red optometer, 291
Ong, B L and **Larke, J R,**
Meibomian gland dysfunction: some clinical, biochemical and physical observations, 144
Ong, E see **Ciuffreda, K J**, 168
Ott, D and **Lades, M,**
Measurement of eye rotations in three dimensions and the retinal stimulus projection using scanning laser ophthalmoscopy, 67
Ott, D, Lades, M, Holthoff, K and **Eckmiller, R,**
A general numerical method evaluating three-dimensional eye rotations by scanning laser ophthalmoscopy, 286
Owen, K see **North, R V**, 81
Owens, H,
Partial Sight and Diabetic Retinopathy (Video Review), 117
Pardhan, S and **Gilchrist, J,**
The effect of monocular defocus on binocular contrast sensitivity, 33
Pardhan, S and **Gilchrist, J,**
Binocular contrast sensitivity with monocular glare disability, 37
Parrish, S T,
Clinical Light Damage to the Eye: David Miller (Ed) (Book Review), 119
Pateras, E S see **Fowler, C W**, 186
Pateras, E S see **Fowler, C W**, 262
Rosen, J see **Ciuffreda, K J**, 168
Rosenfield, M and **Ciuffreda, K J,**
Proximal and cognitively-induced accommodation, 252
Rosenfield, M and **Ciuffreda, K J,**
Accommodative convergence and age (Letter to the Editor), 403
Rosenfield, M see **Ciuffreda, K J**, 168
Royston, J M, Dunne, M C M and **Barnes, D A,**
Measurement of the posterior corneal radium using slit lamp and Purkinje image techniques, 385
Rumney, N J see **Leat, S J**, 8
Ruskell, G L,
Accommodation and the nerve pathway to the ciliary muscle: a review, 239
Russell-Eggitt, I see **Thomson, W D**, 137
Sanderson, K see **Elliott, D B**, 21
Scott, A see **Obstfeld, H**, 305
Searle, A,
Perspectives in Glaucoma. Transactions of First Scientific Meeting of the American Glaucoma Society: M Bruce Shields, Irvin P Pollack and Allan E Kolker (Book Review), 318
Sethi, B see **North, R V**, 81
Shaw, D E, Moseley, M J and **Fielder, A R,**
The Ives visual acuity test object: a reappraisal, 90
Shute, R, Candy, R, Westall, C and **Woodhouse, J M,**
Success rates in testing monocular acuity and stereopsis in infants and young children, 133
Shute, R H and **Woodhouse, J M,**
Visual fitness to drive after stroke or head injury, 327
Simonet, P and **Campbell, M C W,**
Effect of illuminance on the directions of chromostereopsis and transverse chromatic aberration observed with natural pupils, 271
Smith, C U M,
Neurobiology of the Inner Retina: R Weiller and N N Osborne (Eds) Book Review, 416
Smith, G see **Lu, C**, 54
Stark, L see **Myers, G A**, 175
Stephens, G L and **Jones, R,**
Horizontal fusional amplitudes after adaption to prism, 25
Sullivan, C M and **Fowler, C W,**
Investigation of Progressive Addition Lens patient tolerance to dispensing anomalies, 16
Sullivan, C M see **Fowler, C W**, 85
Swann, P G and **Lovie-Kitchin, J E,**
Age-related maculopathy. I: A review of its morphology and effects on visual function, 149
Tang, C-Y,
Thickness and weight of lenses for myopia, 159
Thomson, W D, Desai, N and **Russell-Eggitt, I,**
A new system for the measurement of ocular motility using a personal computer, 137
Tokoro, T see **Okuyama, F**, 291
Tuck, J P and **Long, G M,**
The role of small-field tritanopia in two measures of colour vision, 195
Westall, C see **Broadbent, H**, 3
Westall, C see **Shute, R**, 133
Whitaker, D see **Elliott, D B**, 323
Wildey, H see **Barnard, N A S**, 391
Winn, B,
Strabismus and Amblyopia Wenner-Gren International Symposium Series Vol 49: G Lennerstrand, G K von Noorden and E C Campos (Eds) (Book Review), 317
Woodhouse, J M see **Shute, R**, 133
Woodhouse, J M see **Shute, R H**, 327
Woodward, E G,
Optics for Ophthalmologists: Alfredo A Sadun and James D Brandt (Book Review), 119
Woodward, E G and **Morris, M T,**
Joint hypermobility in keratoconus, 360